

VERIFICATION OF TRANSLATION

I, Takashi KOJIMA, a Japanese patent attorney, hereby declare as follows:

That I am familiar with the Japanese and English languages;

That I am capable of translating from Japanese to English;

That the translation attached hereto is a true and accurate translation of specification in respect of an application for a Japanese patent filed on July 12, 1990 entitled Method and Apparatus for Manufacturing Quartz-Based Optical Waveguide,

That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any registration resulting therefrom.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Services as First Class Mail in an envelope addressed to: Commissioner of Patents, P O Box 1450, Alexandria, VA 22313-1450 and 150 March 150 Mar

Name: SHARON MCGANIEL

Takashi KOJIMA

Executed this 30th day of January 2004.